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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/885,318	06/19/2001	Yasushi Hara	P/1912-23	4595	
2352	7590 03/22/2004		EXAMINER		
OSTROLENK FABER GERB & SOFFEN			BELLO, AGUSTIN		
	UE OF THE AMERICA ζ, NY 100368403	S	ART UNIT PAPER NUMBER		
1.2., 1014	,			<u></u>	
			DATE MAILED: 03/22/2004	, <i>O</i>	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/885,318	HARA ET AL.	v			
Office Action Summary	Examiner	Art Unit				
	Agustin Bello	2633				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	n the correspondence addres	;s			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a repeply within the statutory minimum of thirty will apply and will expire SIX (6) MONTI ute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this commu NDONED (35 U.S.C. § 133).	inication.			
Status						
1) Responsive to communication(s) filed on	·					
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.					
• •	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-17 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the second seco	ccepted or b) objected to by ne drawing(s) be held in abeyanc ection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.	` '			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Application of the property	plication No eceived in this National Stag	ge			
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Su	mmary (PTO-413) Mail Date				
Notice of Dransperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 3 and 5.		ormal Patent Application (PTO-152	·)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 3-8 and 12-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 3 the applicant claims, "wherein between said fixed pattern output by said memory and said unfixed pattern output by said pattern generation circuit, said selection circuit selects said unfixed pattern." However, it is not clear if the applicant is intending to claim that the selector is between the two data formats or whether the selector always selects the unfixed pattern when having to choose between the two patterns.
- 3. Claims 4, 6-8, and 14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: a connective relationship between the phase comparison circuit and the selector.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-9, as best understood by the examiner in view of the 112 rejections above, are 5. rejected under 35 U.S.C. 103(a) as being unpatentable over the prior art admitted by the applicant (Figure 3 of the drawings) in view of Segaram (U.S. Patent No. 5,822,325).

Regarding claims 1 and 10, the admitted prior art teaches a circuit for preventing transmission of a fixed pattern of an optical digital transmission equipment, comprising: a memory (reference numeral 102 in Figure 3) for temporarily accumulating a low-order group signal (reference numeral 101 in Figure 3), a multiplexing circuit (reference numeral 110 in Figure 3) for multiplexing an output signal output by said memory with an overhead bit necessary for optical digital transmission. The admitted prior art differs from the claimed invention in that it fails to specifically teach a pattern generation circuit for generating an unfixed pattern having no fixed value and outputting the pattern to said multiplexing circuit. However, coupling a pattern generation circuit generating an unfixed pattern to a multiplexer is well known in the art. Segaram teaches coupling a pattern generation circuit (reference numeral 130 in Figure 2) for generating an unfixed pattern having no fixed value (e.g. random data signal column 3 lines 7-11) and outputting the pattern to said multiplexing circuit (reference numeral 330 in Figure 2). One skilled in the art would have been motivated to couple a pattern generation circuit for generating an unfixed pattern having no fixed value and outputting the pattern to said multiplexing circuit of the admitted prior art in order to prevent unauthorized downstream ports from receiving the data signal. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to couple a pattern generation circuit for generating an unfixed pattern having no fixed value and outputting the pattern to said multiplexing circuit as taught by Segaram in the transmitter of the admitted prior art.

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Regarding claim 2, the combination of references teaches that said unfixed pattern (e.g. random pattern of Segaram) is applied to said multiplexing circuit while said memory outputs a fixed pattern (reference numeral 109 in Figure 3 of the admitted prior art).

Regarding claims 3 and 12, the combination of references teaches a selection circuit (reference numeral 240 in Figure 2 of Segaram) connected to said multiplexing circuit and said memory (reference numeral 102 in Figure 3 of the admitted prior art), wherein between said fixed pattern output by said memory and said unfixed pattern output by said pattern generation circuit, said selection circuit selects said unfixed pattern (e.g. random pattern selected when necessary). The combination of references differs from the claimed invention in that it fails to specifically teach that the selector is between the multiplexer and the memory. However, one skilled in the art would clearly have recognized that a selector positioned between the memory and the multiplexer would have been beneficial in that it would have allowed the selection of the signal to be input to the multiplexer. Furthermore, Segaram suggests this concept in that the selector (reference numeral 240 in Figure 2) works in conjunction with the multiplexer to select a single signal to be input to the multiplexer. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have positioned the selector of taught by Segaram between the memory and the multiplexer in the combination of references.

Regarding claims 4, 5, 13, and 14 the combination of references and the admitted prior art in particular teaches a phase comparator (reference numeral 115 in Figure 3) for outputting a reset signal which resets said memory based on a phase difference between a phase of write to said memory and a phase of read from the memory. The combination of references differs from the claimed invention in that it fails to specifically teach that said selection circuit selects said

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unfixed pattern based on said reset signal. However, one skilled in the art would clearly have recognized that since the memory outputs a fixed pattern after a reset, information from the memory not intended to be transmitted to a distant receiver would be output. As such, one skilled in the art would clearly have recognized that the system of Segaram provides a means for interrupting the transmission of unintended data by instead selecting random data to be input and output from the multiplexer. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to select unfixed pattern data (e.g. random) based on said reset signal in the combination of references.

Regarding claims 9 and 11, the combination of references teaches that the unfixed pattern is random (column 3 lines 7-11).

Allowable Subject Matter

6. Claims 6-8 and 15-17 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rosen, Kendall, Tominaga, Lafferty, and Urbansky present relevant art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (703)308-1393. The examiner can normally be reached on M-F 8:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (703)305-4729. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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